Holmium Bromide 3		32
COMPONENTS:	ORIGINAL MEASUREMENTS:	
(1) Holmium bromide; HoBr ₃ ; [13825-76-8]	Rossmanith, K.	
(2) Tetrahydrofuran; C ₄ H ₈ O; [109-99-9]	Monatsh. Chem. <u>1966</u> , 97, 1357-64.	
VARIABLES:	PREPARED BY:	
Room Temperature: T/K = 294-296	T. Mioduski	
EXPERIMENTAL VALUES:	<u> </u>	
0.38 g per 100 ml of solution (0	0.0094 mol dm ⁻³ , (compiler).	
AUXILIAR'	Y INFORMATION	
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Isothermal method employed. The solution

Holmium was determined by the oxalate method and by titration with EDTA using Xylenol Orange indicator. The solvent was determined by difference.

Anhydrous materials were handled in a dry box through which was passed a stream of nitrogen free of carbon dioxide.

The solid phase is HoBr3.3.5C4H80.

SOURCE AND PURITY OF MATERIALS:

Sources and purities of initial materials was equilibrated in an extractor with agita-tion for 60-80 hours at room temperature. not specified. HoBr₃ was prepared by con-version of the oxide by high temperature reaction with an excess of NH4Br followed by heating the product in a stream of dry nitrogen, and then in vacuum to remove unreacted NH4Br.

Tetrahydrofuran was distilled from LiAlH4.

ESTIMATED	ERROR:
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Nothing specified.

REFERENCES: